## **CLAIMS**

## What is claimed is:

- 1. A method, comprising encoding data values by mapping multi-dimensional parameters of the data values to respective one-dimensional parameters and creating a table of encoded data values in which the data values are represented by their respective encoded counterparts utilizing the one-dimensional parameters and in which redundant ones of the encoded data values share common table entries.
- 2. The method of claim 1, wherein the data values comprise pixel information.
- 3. The method of claim 1, wherein the data values comprise position information.
- 4. The method of claim 1, wherein redundant encoded data values share identical parameter values.
- 5. The method of claim 1, wherein redundant data values share parameters values which are similar to one another within a tolerance range.
- 6. The method of claim 1, further comprising transmitting the table of encoded data values to a receiver.
- 7. The method of claim 6, further comprising decoding the table of encoded data values at the receiver using the table of encoded data values and a set of reference information.

- 8. The method of claim 7, wherein the reference information is transmitted together with the table of encoded data values.
- 9. The method of claim 7, wherein the reference information is stored at the receiver prior to the transmission of the table of encoded data values.
- 10. The method of claim 7, wherein the reference information comprises a lookup table.
- 11. A method, comprising encoding a data values having one or more multi-dimensional parameters by combining a lossy encoding process in which the one or more multi-dimensional parameters of the data values are mapped to respective one-dimensional parameters and stored in a table of encoded data values, with a lossless encoding process in which redundant ones of the encoded data values are arranged to share common entries in the table.
- 12. The method of claim 11, wherein the data values comprise pixel information.
- 13. The method of claim 11, wherein the data values comprise position information.
- 14. The method of claim 11, wherein the redundant ones of the encoded data values share identical parameter values.
- 15. The method of claim 11, wherein the redundant ones of the encoded data values share parameters values which are similar to one another within a tolerance range.

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- 16. The method of claim 11, further comprising transmitting the table of encoded data values to a receiver.
- 17. The method of claim 16, further comprising decoding the table of encoded data values at the receiver using the table of encoded data values and a set of reference information.
- 18. The method of claim 17, wherein the reference information is transmitted together with the table of encoded data values.
- 19. The method of claim 17, wherein the reference information is stored at the receiver prior to the transmission of the table of encoded data values.
- 20. A set of computer readable instructions embodied on a computer-readable medium, which when executed by a computer processor cause the computer processor to execute a process comprising encoding data values by mapping multi-dimensional parameters of the data values to respective one-dimensional parameters and creating a table of encoded data values in which the data values are represented by their respective encoded counterparts utilizing the one-dimensional parameters and in which redundant ones of the encoded data values share common table entries.